INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37257

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B01D 47/12, 53/14 | | | | |
|--|--|---|---------------------------------|--|
| US CL : 96/290, 352, 416, 242 | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | |
| B. FIELDS SEARCHED | | | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 96/290, 329, 351, 352, 416, 242; 261/115, 121.1, 126 | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
| Category * | Citation of document, with indication, where a | | Relevant to claim No. | |
| X | US 4,661,130 A (EBELING et al) 28 April 1987 (2) | 8.04.1987), figures, col. 2, lines 30-37, | 1, 2, 7 | |
| Y | col. 3, lines 15-47, col. 4, lines 5-55 | · | 3-6, 8-17 | |
| x | US 2,070,578 A (BOWMAN) 16 February 1937 (16 | 5.02.1937), figure, col. 1, line 13 to col. | 1, 2 | |
| Y | 2, line 6 US 3,465,504 A (OROPEZA et al) 09 September 1969 (09.09.1969), figure 1, col. 2, lines 3, 12 40-41 | | 3, 12 | |
| Y | US 3,957,464 A (TELLER) 18 May 1976 (18.05.1976), abstract, col. 6, lines 8-15 4, 5, 13, 14 | | 4, 5, 13, 14 | |
| Y | US 2002/0110511 A1 (KLINGSPOR et al) 15 August 2002 (15.08.2002), abstract, 6, 15 paragraph 0006 | | 6, 15 | |
| Y | US 4,247,532 A (SALETAN et al) 27 January 1981 (27.01.1981), col. 7, lines 23-64 9-17 | | 9-17 | |
| | | | | |
| Further | documents are listed in the continuation of Box C. | See patent family annex. | | |
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| | defining the general state of the art which is not considered to be lar relevance | date and not in conflict with the applica principle or theory underlying the inven | ntion | |
| "E" earlier ap | plication or patent published on or after the international filing date | "X" document of particular relevance; the c considered novel or cannot be consider when the document is taken alone | ed to involve an inventive step | |
| | which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as | "Y" document of particular relevance; the c considered to involve an inventive step | when the document is | |
| "O" document | referring to an oral disclosure, use, exhibition or other means | combined with one or more other such being obvious to a person skilled in the | | |
| "P" document published prior to the international filing date but later than the priority date claimed | | "&" document member of the same patent for | amily | |
| | ctual completion of the international search | Date of mailing of the international searce 0 6 APR 2005 | h report | |
| | 05 (21.03.2005) illing address of the ISA/US | Authorized officer | | |
| | I Stop PCT, Attn: ISA/US | | | |
| Commissioner for Patents | | Frank M. Lawrence Jean Proteon Paralegal Specification | | |
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| Continuation of B. FIELDS SEARCHED Item 3: DERWENT search terms: diffuser, bubbles, spray | | | | |
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